

CLAIMS

1. An optical-element holding mechanism comprising:
a first holding member ¹⁰⁹ arranged to hold a first ¹²³ optical element;

a second holding member ¹¹⁸ arranged to hold a ¹²⁶ second optical element;

a coupling member ¹⁴⁵ arranged to couple said first and second holding members with each other and to permit relative positions of said first and second holding members to be varied in process of being coupled; and

an urging member ¹²⁰ disposed between said coupling member and said second holding member and arranged to urge and press said second holding member ¹¹⁸ against said first holding member ¹⁰⁹ at least when said coupling member is in process of coupling said first and second holding members.

2. An optical-element holding mechanism according to claim 1, wherein said coupling member is a screw arranged to couple said first and second holding members with each other by tightening.

3. An optical-element holding mechanism according to claim 2, wherein said urging member ¹²⁰ is a washer having an elastic force, through which a shaft of said screw pierces.

4. An optical-element holding mechanism according to

claim 1, further comprising a deformation restricting member arranged to restrict deformation of said first holding member while the relative positions of said first and second holding members are in process of being varied and when said coupling member is in process of coupling said first and second holding members.

5. An optical-element holding mechanism according to claim 4, wherein said deformation restricting member is disposed between said coupling member and said first holding member.

6. An optical-element holding mechanism according to claim 4, wherein said urging member is disposed between said coupling member and said deformation restricting member.

7. An optical-element holding mechanism according to claim 1, further comprising a friction preventing member disposed between said coupling member and said second holding member and arranged to prevent generation of a frictional force between said coupling member and said second holding member when said coupling member is in process of coupling said first and second holding members.

8. An optical-element holding mechanism according to claim 7, wherein movement of said friction preventing member within a plane of varying the relative positions

of said first and second holding members is restricted.

9. An optical-element holding mechanism according to claim 7, further comprising a deformation restricting member arranged to restrict deformation of said first holding member while the relative positions of said first and second holding members are in process of being varied and when said coupling member is in process of coupling said first and second holding members,

wherein said ¹¹⁹friction preventing member serves also as said deformation restricting member.

10. An optical-element holding mechanism according to claim 7, wherein said urging member is disposed between said ¹⁴⁵coupling member and said ¹²⁰friction ¹¹⁹preventing member.

11. An optical apparatus comprising an optical-element holding mechanism according to one of claims 1 to 10.

12. An image-shake correcting device mounted on an optical apparatus, comprising:

a body member; and

a lens unit arranged to be moved with respect to said body member in a direction orthogonally intersecting an optical axis so as to correct an image shake,

wherein said body member is provided with a

recessed part formed in a periphery thereof to insert therein a member which extends before and after said body member in a direction of an optical axis and which constitutes said optical apparatus.

13. An image-shake correcting device according to claim 12, further comprising lens driving means mounted on said body member for driving said lens unit, a lock member arranged to be movable with respect to said body member to lock and unlock movement of said lens unit, and lock driving means for driving said lock member,

wherein said recessed part is located at a part of the periphery of said body member other than parts where said lens driving means and said lock driving means are mounted on the periphery of said body member.

14. An image-shake correcting device according to claim 13, wherein said lens driving means includes two lens driving means for driving said lens unit in two mutually orthogonally intersecting directions which respectively orthogonally intersect the optical axis, said lock driving means is one lock driving means, and said recessed part is formed in three parts of the periphery of said body member between a part where said lock driving means is mounted and a part where one of said two lens driving means is mounted, between a part where said lock driving means is mounted and a part where the other of said two lens driving means is mounted and

between parts where said two lens driving means are mounted.

15. An image-shake correcting device according to claim 13, wherein said lens driving means and said lock driving means are disposed approximately within one and the same plane orthogonally intersecting the optical axis.

16. An image-shake correcting device according to claim 13, further comprising a restricting part arranged on an inner side of said recessed part of said body member to restrict the movement of said lens unit in the direction of the optical axis.

17. An optical apparatus comprising an image-shake correcting device according to one of claims 12 to 16.

18. An optical apparatus according to claim 17, wherein a member which interlinks optical elements disposed before and after said image-shake correcting device in the direction of the optical axis is inserted into said recessed part.

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